

Application No. 09/997,024**Docket No. H30-4969 CIP1****Amendments to the Claims**

Please amend the claims to read as follows:

1. (Currently Amended) A method of producing a supported metallocene catalyst system comprising the steps of:
 - (a) providing a metallocene catalyst solution comprising a metallocene catalyst dissolved in a supercritical-like solvent at a temperature of from about -10°C to about 200°C;
 - (b) contacting a support material with said metallocene catalyst solution; and
 - (c) removing substantially all of said supercritical-like solvent from said metallocene catalyst and said support material.
2. (Cancelled)
3. (Previously Amended) The method of claim 1, wherein said metallocene catalyst comprises a zirconium metallocene compound.
4. (Original) The method of claim 3, wherein said zirconium metallocene compound is selected from the group consisting of dichlorobis(n-butylcyclopentadienyl) zirconium (IV), dichlorobis(cyclopentadienyl) zirconium (IV) and mixtures thereof.

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5. (Original) The method of claim 1 wherein said supercritical-like solvent is a solvent in its supercritical state.

6. (Original) The method of claim 1 wherein said supercritical-like solvent comprises a liquid solvent in a subcritical state selected from the group consisting of methane, ethane, ethylene, propylene, trifluorochloromethane, difluoromethane, isomers of tetrafluoroethane, pentafluoroethane, isomers of trifluoroethane, isomers of pentafluoropropane, difluorochloromethane, isomers of tetrafluorochloroethane, carbon dioxide, ammonia, and mixtures of two or more thereof.

7. (Original) The method of claim 6 wherein said liquid solvent comprises liquid carbon dioxide.

8. (Cancelled)

9. (Previously Amended) The method of claim 1 wherein said providing step (a) comprises dissolving said metallocene catalyst in said supercritical-like solvent at a temperature of from about 30°C to about 100°C.

10. (Previously Amended) The method of claim 1 wherein said providing step (a) comprises dissolving said metallocene catalyst in said supercritical-like solvent at a pressure of from about 25 psia to about 5,000 psia.

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11. (Previously Amended) The method of claim 9 wherein said providing step (a) comprises dissolving said metallocene catalyst in said supercritical-like solvent at a pressure of from about 100 psia to about 3,500 psia.

12. (Previously Amended) The method of claim 1, wherein said metallocene catalyst comprises a co-catalyst.

13. (Previously Amended) The method of claim 12, wherein said co-catalyst is selected from the group consisting of tri-(n-butyl) ammonium tetrakis (pentafluorophenyl) boron, tris (pentafluorophenyl) borane, an alumoxane, methylalumoxane and mixtures thereof.

14. (Previously Amended) The method of claim 1 wherein said support material is selected from the group consisting of alumina, silica and silica treated with a halogenated organic compound.

15. (Previously Amended) The method of claim 14 wherein said support material comprises a plurality of particles.

16. (Previously Amended) The method of claim 14 wherein said support material comprises a single unitary body.

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17. (Original) The method of claim 1 wherein said removing step (c) comprises converting said supercritical-like solvent to a gaseous state.

18. (Original) The method of claim 17 wherein said supercritical-like solvent is converted to a gaseous state by adjusting the temperature of said solvent.

19. (Original) The method of claim 17 wherein said supercritical-like solvent is converted to a gaseous state by adjusting the pressure of said solvent.

20. (Previously Amended) The method of claim 1 further comprising the steps of:

(a) providing a second metallocene catalyst solution comprising a second metallocene catalyst dissolved in a supercritical-like solvent;

(b) contacting said support material with said second metallocene catalyst solution; and

(c) removing substantially all of said supercritical-like solvent of said second solution from said second metallocene catalyst and said support material.

21. (Previously Amended) The method of claim 20, wherein said metallocene catalyst solution and said second metallocene catalyst solution are contacted with said support material substantially simultaneously.

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22. (Previously Amended) The method of claim 20, wherein said solvent of said second solution is a selective solvent for said second metallocene catalyst.

23. – 34. (Withdrawn)

35. (Currently Amended) A method for producing a supported metallocene catalyst system comprising the steps of:

- (a) providing a metallocene catalyst solution comprising a metallocene catalyst dissolved in a first solvent at a temperature of from about -10°C to about 200°C;
- (b) contacting a support material with said catalyst solution; and
- (c) removing substantially all of said first solvent by contacting said first solvent with a supercritical solvent and evaporating said supercritical solvent.

36. (Original) The method of claim 35, wherein said first solvent is a liquid solvent.

37. (Cancelled)

38. (Currently Amended) The method of claim 35 further comprising the steps of:

- (a) providing a second metallocene catalyst solution comprising a second metallocene catalyst dissolved in a second solvent at a temperature of from about -10°C to about 200°C;

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(b) contacting said support material with said second metallocene catalyst solution; and

(c) removing substantially all of said second solvent by contacting said second solvent with a supercritical solvent and evaporating said supercritical solvent.

39. (Previously Amended) The method of claim 38, wherein said metallocene catalyst solution and said second metallocene catalyst solution are contacted with said support material substantially simultaneously.